

L9 ANSWER 9 OF 29 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1993:104762 CAPLUS

DOCUMENT NUMBER: 118:104762

TITLE: Washfast water and oil repellents for textiles

INVENTOR(S): Kamata, Takashi; Ito, Katsuji; Ishida, Mika

PATENT ASSIGNEE(S): Asahi Glass Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|-------------|------|----------|-----------------|----------|
| JP 04272986 | A2 | 19920929 | JP 1991-56125 | 19910227 |
| JP 2968364 | B2 | 19991025 | | |

PRIORITY APPLN. INFO.: JP 1991-56125 19910227

AB Title repellents contain copolymers composed of polyfluoroalkyl-contg. polymerizable compds., vinyl chloride (I), and divinyl monomers and/or diallyl monomers. Thus, an aq. mixt. contg. CF₃(CF₂)₈CH₂OCOCH:CH₂ 70, I 27.5, divinylbenzene 0.5, N-methylolacrylamide 2, Emulgen 920 7, Me₂CO 60, tert-dodecylmercaptan 0.2, and V 50 0.1 part was heated 12 h at 60.degree. to give a ***latex***. A nylon taffeta finished with the ***latex*** showed soft handle initially and good water and oil repellency even after 4 washings.

EV979440244

L9 ANSWER 8 OF 29 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1993:170956 CAPLUS

DOCUMENT NUMBER: 118:170956

TITLE: Durable water and oil repellents for textiles

INVENTOR(S): Kamata, Takashi; Ito, Katsuji; Ishida, Mika

PATENT ASSIGNEE(S): Asahi Glass Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
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| JP 04272987 | A2 | 19920929 | JP 1991-56126 | 19910227 |
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| JP 2968365 | B2 | 19991025 | | |
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PRIORITY APPLN. INFO.: JP 1991-56126 19910227

AB The title agents causing no adverse effects on textile strength and handle contain copolymers of polyfluoroalkyl monomers, alkyl (meth)acrylates, and vinyl and/or allyl glycidyl ether. A 70:27.5:2.5 1,1-dihydroperfluorodecyl ***acrylate*** -vinyl chloride-vinyl glycidyl ether copolymer ***emulsion*** was baked on nylon taffeta at 170.degree. for 60 s at wet pickup 30%.

EV979440244

L9 ANSWER 27 OF 29 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1969:58427 CAPLUS

DOCUMENT NUMBER: 70:58427

TITLE: Polyfluoroalkyl ***acrylate*** polymers

INVENTOR(S): Katsushima, Atsuo; Hisamoto, Iwao; Fukui, Taneomi;
Kato, Takahisa; Nagai, Masayuki

PATENT ASSIGNEE(S): Daikin Kogyo Co., Ltd.

SOURCE: Jpn. Tokkyo Koho, 5 pp.

CODEN: JAXXAD

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
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| JP 43020466 | B4 | 19680902 | JP | 19650212 |
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AB A mixt. of 21 g. mixt. of (CF₃)₂CF₂CFHC(CF₃)FCH₂O₂CCH:CH₂ and
(CF₃)₂CHCCF₂CF₃)FCH₂O₂CCH:CH₂, 4 g. CH₂:CHCO₂Pr, 200 g. H₂O, 10 g.
Me₂CO,

5 g. (CF₃)₂CF(CF₂)₄CO₂Na, and 1.4 g. K₂S₂O₈ is polymd. at 60-3.degree. for
190 min. to give 239 g. ***emulsion*** of 9.8% concn.

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L9 ANSWER 26 OF 29 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1969:115861 CAPLUS

DOCUMENT NUMBER: 70:115861

TITLE: Fluorolefin polymers and copolymers

INVENTOR(S): Katsushima, Atsuo; Hisamoto, Iwao; Fukui, Taneomi;
Kato, Takahisa; Nagai, Masayuki

PATENT ASSIGNEE(S): Daikin Kogyo Co., Ltd.

SOURCE: Jpn. Tokkyo Koho, 5 pp.

CODEN: JAXXAD

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
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| JP 44001216 | B4 | 19690120 | JP | 19651101 |
|-------------|----|----------|----|----------|

AB Polymers and copolymers from $\text{RCH:CH}(\text{CH}_2)_n\text{O}_2\text{CCR':CH}_2$ (R is C1-10 fluoroalkyl, R' is H or Me, n is 2-10) is claimed. In an example, a mixt. of 45 g. $\text{CF}_3(\text{CF}_2)_6\text{CH:CHCH}_2\text{CH}_2\text{O}_2\text{CCH:CH}_2$, 25 g. $\text{CH}_2:\text{CMeCO}_2\text{Me}$, 500 cc.

H₂O

(free from O), 5 g. $\text{C}_7\text{F}_{15}\text{CO}_2\text{NH}_4$, and 35 g. Me_2CO is heated to 50.degree. in N with stirring, and polymn. is conducted 6 hrs. at 60-5.degree. after the addn. of 2.5 g. $\text{K}_2\text{S}_2\text{O}_8$ in 100 cc. H₂O to give the stable ***emulsion*** (I) of 6.5 wt. %. Cotton or leather, treated with 1% concn. of I and dried at 100.degree. or 130.degree., resp., shows good H₂O repellence. Softening point of the polymer is >50.degree..

EV979440244

L9 ANSWER 18 OF 29 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1974:554485 CAPLUS

DOCUMENT NUMBER: 81:154485

TITLE: Water- and oil-repelling products for wet treating of
fibers

INVENTOR(S): Iwatani, Akitoshi

PATENT ASSIGNEE(S): Daikin Kogyo Co., Ltd.

SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
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| JP 48023684 | A2 | 19730327 | JP 1971-57824 | 19710730 |
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| PRIORITY APPLN. INFO.: | JP 1971-57824 | 19710730 | | |
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AB Maleic anhydride and (or) maleic acid (I) [110-16-7] are added to an aq. dispersion of a copolymer with C3-21 fluoroalkyl pendant groups derived from $\text{CH}_2\text{:CRCO}_2\text{CH}_2\text{CH}(\text{O}_2\text{CR}_1)\text{CH}_2\text{R}_2$ ($\text{R} = \text{H}$ or Me , $\text{R}_1 = \text{C}_1\text{-17 alkyl}$, $\text{R}_2 = \text{perfluoroalkyl}$) and ***acrylic*** acid, methacrylic acid, and (or) their esters to give a water- and oil-repellent agent. Thus, a nylon textile was immersed in an ***emulsion*** contg. 0.5 wt. % I and 0.5 wt. % 2-ethylhexyl methacrylate-N-methylolacrylamide-3-[7-(trifluoromethyl)perfluorooctyl]-2-acetoxypentyl ***acrylate*** copolymer [***52830-82-7***], squeezed to 50% pickup, dried 10 min at 88.deg., and heated 3 min at 140.deg.. The textile had water repellency (JIS L 1004-22) 80 and oil repellency (AATCC 118-66T) 7.

EV979440244

L9 ANSWER 17 OF 29 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1975:595135 CAPLUS

DOCUMENT NUMBER: 83:195135

TITLE: Treating fibers

INVENTOR(S): Katsushima, Atsuo; Hisamoto, Iwao; Soei, Taneomi;
Kato, Takahisa; Nagai, Masayuki; Iwaya, Akitoshi

PATENT ASSIGNEE(S): Daikin Kogyo Co., Ltd.

SOURCE: Jpn. Tokkyo Koho, 6 pp.

CODEN: JAXXAD

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
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| JP 49040040 | B4 | 19741030 | JP 1972-57856 | 19720610 |
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| PRIORITY APPLN. INFO.: | JP 1972-57856 | 19720610 | | |
|------------------------|---------------|----------|--|--|

AB Fibers are treated with a liq. prepd. by mixing an aq. dispersion of a fluorine-contg. polymer contg. a C3-21 perfluoroalkyl group with an antistatic agent and a water-sol. salt to give antistatic fibers with improved water and oil repellency. Thus, a mixt. of (CF₃)₂CF(CF₂)₆CH₂CH(OH)CH₂OOCCH:CH₂ 36, N-methylolacrylamide 0.34, 2-ethylhexyl methacrylate 31.5, H₂O 45, Me₂CO 7, and 62:38 dimethyloctadecylamine-glacial acetic acid mixt. 6.4 g was stirred at room temp., heated to 40-55.degree., mixed with an aq. soln. contg. 5 g H₂O and 0.06 g HCl, heated to 58-62.degree., and stirred for 3 hr. The stable polymer [***55527-32-7***] dispersion (1 part) was mixed with a soln. of 1 part Parmax AW-2 [11121-11-2] in 20 parts H₂O and an aq. soln. contg. 0.5 part NH₄Cl [12125-02-9] in 20 parts H₂O and then dild. with H₂O to 100 parts. A Tetoror broadcloth (15 parts) was dipped into the ***emulsion*** for 3 min, squeezed to 100% pickup, dried at 80.degree. for 20 min, and then heat-treated at 150.degree. for 3 min, giving an antistatic cloth with improved water and oil repellency.

EV979440244

L9 ANSWER 16 OF 29 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1979:7548 CAPLUS

DOCUMENT NUMBER: 90:7548

TITLE: Water-resistant and oil-resistant textiles

INVENTOR(S): Kirimoto, Kazusuke

PATENT ASSIGNEE(S): Asahi Glass Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|----------|
| JP 53081799 | A2 | 19780719 | JP 1976-157402 | 19761228 |
| PRIORITY APPLN. INFO.: | | | JP 1976-157402 | 19761228 |

AB Water- and oil-resistant cotton or polyester fabrics with improved hand were prep'd. by mixing a poly(dimethylsiloxane) or Me H polysiloxane (I) with a polymer based on RZCO₂CR₁:CH₂, where R is a C₄-15 perfluoroalkyl group, Z is a C₁-10 alkylene, and R₁ is H or Me, and finishing the fabric with the mixt. Thus, an ***emulsion*** contg. a mixt. (A) of a 4:3:2:1 CH₂:CHCO₂(CH₂)₃(CF₂)₄CF(CF₃)₂-CH₂:CHCO₂(CH₂)₃(CF₂)₆CF(CF₃)₂-CH₂:CHCO₂(CH₂)₃(CF₂)₈CF(CF₃)₂-CH₂:CHCO₂(CH₂)₃(CF₂)₁₀CF(CF₃)₂ copolymer [***68508-80-5***] 73, Et ***acrylate*** 25, and diacetone acrylamide 2 wt.% 100, an emulsifier 9, and C₁₈H₃₇N+Me₃Cl- 1 part and I were mixed. A polyester doeskin was immersed in the resulting mixt. to 90% pickup, dried, and heated 1 min at 170.degree. to give a smooth water- and oil-resistant fabric with A mixt. content 0.04% and I content 0.02%, whereas the hand of a fabric treated with a similar compn. without I was not smooth.

EV979440244

L9 ANSWER 15 OF 29 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1980:587706 CAPLUS

DOCUMENT NUMBER: 93:187706

TITLE: Oilproofing and waterproofing agents for finishing
textiles

PATENT ASSIGNEE(S): Daikin Kogyo Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
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| JP 55071779 | A2 | 19800530 | JP 1978-144547 | 19781122 |
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| JP 63014027 | B4 | 19880329 | | |
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PRIORITY APPLN. INFO.: JP 1978-144547 19781122

AB Fluoropolymer compns. contg. a mixt. of a salt of RNMe₂ or RN+Me₂R₁X⁻, where R is C₈-18 alkyl, R₁ is H or C₁-3 alkyl or benzyl, and X⁻ is a neg. ion, and a nonionic emulsifier at 20-60:40-80 wt. ratio were useful for waterproofing and oilproofing of textiles. Thus, 60 parts of a compn. contg. (CF₃)₂CF(CF₂CF₂)_qCH₂CH₂O₂CCH:CH₂(q = 3, 4, 5) at 5:3:1 wt. ratio was mixed with 38 parts stearyl ***acrylate*** and 2 parts N-methylolacrylamide. An emulsifying compn. (8 parts) contg. 60% trimethylstearylammmonium chloride [112-03-8] and 40% polyethylene glycol monolauryl ether (I) [9002-92-0] was added and the mixt. was polymd. to give a polymer (II) [***75132-94-4***] ***latex***. Polyester-cotton blend (65:35) was immersed in a compn. contg. II (0.4% solids) prepd. in the presence of the emulsifying compn., squeezed, dried, and heat-treated 3 min. Resistance to water and oil was good for the treated fabric, whereas this resistance was poor for the fabric treated with a similar compn. without I.

EV979440244

L# ANSWER 84 OF 104 CAPLUS COPYRIGHT 2003 ACS on STN

AN 1982:8518 CAPLUS

DN 96:8518

TI 2-Acyloxy-1,1,2,3,3-pentahydroperfluoroalkanamine ***betaines***

PA du Pont de Nemours, E. I., and Co., Japan

SO Jpn. Kokai Tokkyo Koho, 13 pp.

CODEN: JKXXAF

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
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| PI JP 56122336 | A2 | 19810925 | JP 1981-11770 | 19810130 |
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| JP 03051458 | B4 | 19910806 | | |
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| JP 03246262 | A2 | 19911101 | JP 1990-100137 | 19900416 |
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PRAI US 1980-117670 19800201

AB The title ***betaines*** $\text{RCH}_2\text{CH}(\text{O}_2\text{CR}_1)\text{CH}_2\text{N}^+\text{R}_2\text{R}_3(\text{CH}_2)_m\text{CO}_2^-$ (R = C4-20

perfluoroalkyl ; R1 = C1-4 alkyl; R2, R3 = C1-4 alkyl, C1-4 alkenyl, or NR2R3 = N-heterocycle; m = 1-4) were prepd. For example, $\text{RCH}_2\text{CHICH}_2\text{OH}$ (R = C4-12 ***perfluoroalkyl***) were treated with NaOH and KOH and then Me2NH

[124-40-3] to give 92.4% $\text{RCH}_2\text{CH}(\text{OH})\text{CH}_2\text{NMe}_2$ (R = C4F9 4.0, C6F13 54.0, C8F17 34.4, C10F21 6.0, C12F25 1.6%) which were acetylated and treated with $\text{ClCH}_2\text{CO}_2\text{Na}$ [3926-62-3] in the presence of KI to give a ***betaine*** mixt. with surface tension 17.4, 19.3, and 36.0 dyne/cm at 0.1, 0.01, and 0.001% concn. in aq. solns., resp.

IC C07C101-12; C07D295-14; C11D001-90

DT ***Patent***

LA Japanese

EV979440244

PERFLUOROALKYL SUBSTITUTED ALKYL CARBOXYLIC ACID

Patent number: JP56169666
 Publication date: 1981-12-26
 Inventor: UMEMOTO TERUO
 Applicant: SAGAMI CHEM RES CENTER
 Classification:
 - international: C07C147/00; C07C149/20; C07C149/40
 - european:
 Application number: JP19800073675 19800603
 Priority number(s):

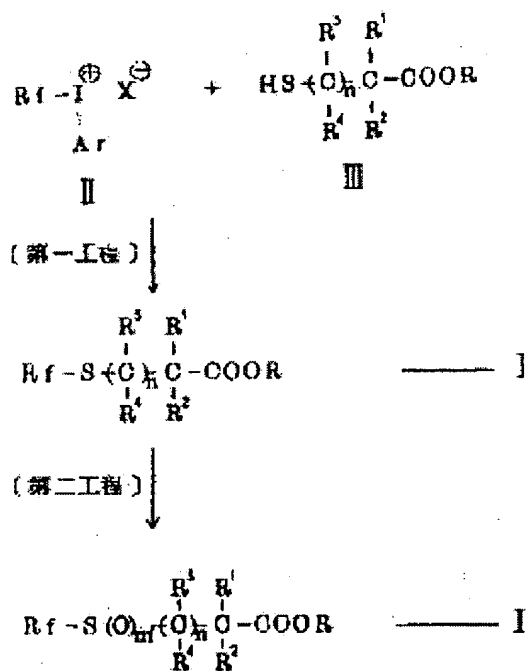
Abstract of JP56169666

NEW MATERIAL: The titled compound of formula I" [Rf is 2-20C perfluoroalkyl; R is H, alkyl or aryl; R<1>, R<2>, R<3> and R<4> are H, (substituted)alkyl or (substituted) aryl; m is an integer 0-2; n is 0 or 1].

EXAMPLE: Heptadecafluoro-n-octylthioacetic acid.

USE: A modifying agent for cephalosporin, a surfactant and a textile treating agent, e.g. capable of giving 7-pentafluoroethylthioacetamido-3- (1-methyl-1H-tetrazol-5-yl) thiomethyl-3-cephem-4-carboxylic acid having an antimicrobial activity against various bacteria.

PROCESS: A compound of formula II (X is halogen, etc.) is reacted with a compound of formula III to give a compound of formula I', which is then oxidized to afford the compound of formula I".



EV979440244

L9 ANSWER 14 OF 29 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1983:541496 CAPLUS
DOCUMENT NUMBER: 99:141496
TITLE: Textile finishing agents
PATENT ASSIGNEE(S): Shin-Etsu Chemical Industry Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|-------------|------|----------|-----------------|----------|
| JP 58042682 | A2 | 19830312 | JP 1981-140555 | 19810907 |
| JP 63032109 | B4 | 19880628 | | |

PRIORITY APPLN. INFO.: JP 1981-140555 19810907

AB Water-repellent and oil-repellent finishing agents for textiles contain 50-99 parts polymers having polyfluoroalkyl groups and 1-50 parts siloxanes having epoxy, acryloyl, methacryloyl, and/or amino groups. Thus, a 40:60 cotton-polyester blend fabric was immersed in an aq. ***emulsion*** contg. 3% copolymer [***87302-26-9***] (prepd. from 4,4,5,5,6,6,7,7,8,9,9,9-dodecafluoro-8-trifluoromethylnonyl ***acrylate*** 20, Et ***acrylate*** 5, and diacetone acrylamide 5g) and 1% of 3-glycidyloxypropyl group-contg. ***siloxane***, squeezed, dried 2 min at 110.degree., and heated 2 min at 170.degree.. The fabric had water repellency (JIS L 1079) 100, oil repellency (3 M) 100, and good hand.

EV979440244

FLUORINE-CONTAINING TRICARBOXYLIC ACID-TYPE AMPHOTERIC COMPOUND AND PREPARATION

Patent number: JP58201752

Publication date: 1983-11-24

Inventor: KAMEI MASAYUKI; others: 02

Applicant: DAINIPPON INK KAGAKU KOGYO KK; others: 01

Classification:

- international: C07C103/38; C07C102/00; C07C103/44; C07C103/78; C07C103/82; C07C143/74; C07C143/

- european:

Application number: JP19820083260 19820519

Priority number(s):

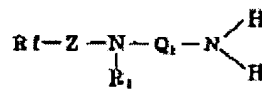
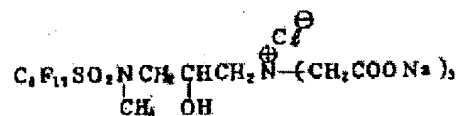
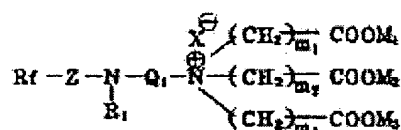
Abstract of JP58201752

NEW MATERIAL: The compound of formula I (Rf is 3-18C fluorinated aliphatic group; Z is -SO₂-, -CO-, -(CH₂)_n-SO₂- (n is 1-6), etc.; R₁ is H, -CH₂CH₂OH, 1-12C alkyl, etc.; Q₁ is -(CH₂)_n- (n is 2-6), etc.; X is inorganic or organic anion; m₁-m₃ are 1-3; M₁-M₃ are H, or inorganic or organic cation).

EXAMPLE: The compound of formula II.

USE: A surface active agent having excellent surface tension lowering activity, frothing property, resistance to hard water, and solubility.

PROCESS: The compound of formula I wherein X is Cl, Br or I can be prepared by reacting the compound of formula III with the compound of formula IV (X' is Cl, Br or I) in the presence of a basic catalyst (in the case of m₁=m₂=m₃) or by reacting 1mol of the compound of formula III with 2.0-2.4mol of the compound of formula V and further reacting with 1.0-1.2mol of the compound of formula VI (in the case of m₁=m₂ not equal to m₃).



EV979440244

L9 ANSWER 13 OF 29 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1984:408672 CAPLUS

DOCUMENT NUMBER: 101:8672

TITLE: Easily dyeable soilproof fibers

PATENT ASSIGNEE(S): Unitika Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
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| JP 59059977 | A2 | 19840405 | JP 1982-173391 | 19820929 |
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| JP 01044837 | B4 | 19890929 | | |
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PRIORITY APPLN. INFO.: JP 1982-173391 19820929

AB Spun synthetic fibers finished with lubricant compns. contg. a fluorocarbon and a cationic ***surfactant*** and drawn are soil-resistant and have good dyeability. Thus, nylon 6 was melt spun and coated (15%) with 10% lubricant ***emulsion*** contg. 7% 70:25:3:2 CH₂:CHCO₂CH₂CH₂(CF₂)₆CF(CF₃)₂-vinyl chloride-2-chloroethyl vinyl ether-2-hydroxyethyl ***acrylate*** copolymer [***90571-06-5***] and 1% dodecyltrimethylammonium chloride [112-00-5]. The coated fibers were drawn 250% at 90.degree. and heat-treated 1 s at 150.degree., and a woven fabric was prepd. and dyed with a liquor contg. 2% (on fiber wt.) Nylomine Blue AG for 20 min at 80.degree. to give a water-resistant soil-resistant fabric with good color yield.

EV979440244

L9 ANSWER 12 OF 29 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1986:554811 CAPLUS

DOCUMENT NUMBER: 105:154811

TITLE: Film-forming composition and film formation

INVENTOR(S): Hashimoto, Yutaka; Kamei, Masayuki

PATENT ASSIGNEE(S): Dainippon Ink and Chemicals, Inc., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 13 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|----------|
| JP 61069813 | A2 | 19860410 | JP 1984-190507 | 19840913 |
| JP 05010393 | B4 | 19930209 | | |
| PRIORITY APPLN. INFO.: | | | JP 1984-190507 | 19840913 |
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AB Film-forming compns. polymerizable with UV light or electron beams comprise 1 part $RZaZ1O2CCR1:CH2$ [$R = C4-20$ perfluoroalkyl; $Z = SO2NR2$, $CONR2$, $CH2CH2SO2NR2$, $O-p-C6H4SO2NR2$, $O-p-C6H4CONR2$, $CH2CH2SCH2CH2CONR2$, $CH2CH2NR2$, $CH2CHMeNR2$, $(CH2)3NR2$; $R1 = H$, Me , halo; $R2 = H$, $C1-12$ alkyl, ether group-contg. alkyl; $a = 0, 1$; $Z1 = (CH2)n$; $n = 2-4$], 4-10,000 parts hydrocarbyl acrylates, and 0.005-5% (per total compn.) oil-sol. F-contg. surfactants, giving films with good hardness and corrosion resistance. Thus, a mixt. of $C8F17SO2NEtCH2CH2O2CCH:CH2$ (I) 0.050, N,N',N'' -tris(2-hydroxyethyl)isocyanurate triacrylate 96.945, 3:7 $C8F17SO2NPrCH2CH2O2CCH:CH2-H2C:CMeco2(CH2)15CHMe2$ copolymer (mol. wt. 4000) 0.005, and benzophenone 3.000 parts was coated on steel, dried, and cured in UV light to give a film with surface hardness $>6H$, contact angle 72° , and good corrosion resistance, vs. 3H, 42° , and poor, resp., without I.

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L# ANSWER 45 OF 104 CAPLUS COPYRIGHT 2003 ACS on STN

AN 1996:205199 CAPLUS

DN 124:269953

TI Hair preparations containing ***perfluoroalkyl*** - and
polyoxyalkylene-modified silicones and surfactants

IN Shinkai, Masakazu; Yamamoto, Tadashi; Kuroda, Akihiro

PA Kanebo Ltd, Japan

SO Jpn. Kokai Tokkyo Koho, 10 pp.

CODEN: JKXXAF

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
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| PI JP 08012536 | A2 | 19960116 | JP 1994-170056 | 19940628 |
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| JP 3243375 | B2 | 20020107 | | |
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| PRAI JP 1994-170056 | | 19940628 | | |
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AB Hair prepns. contg. and cationic ***perfluoroalkyl*** - and
polyoxyalkylene-modified silicones and cationic surfactants and/or anionic
surfactants, .gtoreq.1 selected from anionic, amphoteric, and nonionic
surfactants, or polymers. The prepns. show good a hair-conditioning
effect and are mild to the skin. A shampoo contg. 3% copolymer of
3,3,4,4,5,5,6,6,6-nonafluorohexylmethyldichlorosilane with
CH₂:CHCH₂O(C₂H₄O)₈-12H, 3 % polyoxyethylene lauryl ether, 1% lauric acid
diethanolamide, and H₂O to 100%, showed good foaming property and
detergency, caused no degeneration of proteins and rough skin of hands,
and texture of hair after shampooing was good.

IC ICM A61K007-075

ICS A61K007-00; A61K007-06; A61K007-08; A61K007-11

DT ***Patent***

LA Japanese

EV979440244

L9 ANSWER 5 OF 29 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1996:417619 CAPLUS

DOCUMENT NUMBER: 125:60913

TITLE: Water-repellent compositions containing fluorinated
(meth) ***acrylate*** polymers, their sprays, and
their application by spraying

INVENTOR(S): Shimizu, Toshio; Dejima, Hiroshi; Aoyanagi, Muneo

PATENT ASSIGNEE(S): Kao Corp, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 12 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
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| JP 08081883 | A2 | 19960326 | JP 1994-214583 | 19940908 |
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| JP 3279442 | B2 | 20020430 | | |
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PRIORITY APPLN. INFO.: JP 1994-214583 19940908

AB The title compns. which show long-lasting water-repellent properties and have no unpleasant odor contain (A) 0.1-5% copolymers of CH₂:CR₁CO₂R₂ [R₁ = H, Me; R₂ = H, (aryl-substituted) linear or branched C₁-22 alkyl, alkenyl, (linear or branched C₁-20 alkyl- or alkenyl-substituted) aryl; C₃-8 cycloalkyl], C₂-3 hydroxyalkyl (meth)acrylates, and perfluoroalkyl-contg. (meth)acrylates, (B) 90-99.8% C₁-3 alcs., and (C) 0.1-5% plasticizers and/or F-contg. surfactants. Sprays of the compns. and water-repellent treatment by spraying them are also claimed. Thus, a fluoropolymer prepd. from 50:20:30 ***acrylic*** acid, 2-hydroxyethyl methacrylate, and CF₃(CF₂)₇(CH₂)₁₁O₂CCH:CH₂ 1.0, EtOH 98.0, and di-Bu phthalate 1.0% were mixed with propellants and charged into a container to give a spray, which showed long-lasting water-repellent properties without staining textiles.

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L# ANSWER 24 OF 104 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2000:300379 CAPLUS
DN 132:310506

TI Aqueous film- and foam-forming fire extinguisher
IN Takahisa, Yukiko; Nakata, Minoru; Endo, Chiaki; Hiratsuka, Yasuyuki
PA Daiichi Kasei Kogyo Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

PATENT NO. KIND DATE APPLICATION NO. DATE

PI JP 2000126327 A2 20000509 JP 1998-306560 19981028

PRAI JP 1998-306560 19981028

AB The extinguisher contains polyallylamine, dimethyldiallylammonium salt-maleic acid copolymers, nonionic surfactants having ***perfluoroalkyl*** groups, amphoteric surfactants having ***perfluoroalkyl*** groups, hydrocarbon-type nonionic surfactants, and hydrocarbon-type amphoteric surfactants. The extinguisher does not have thixotropy and forms aq. film and foam to show good fire extinguishing property to both flammable oils, e.g., gasoline, and water-sol. flammable liq., e.g., alcs., ketones, ethers, amines.

IC ICM A62D001-02

DT ***Patent***

LA Japanese

EV979440244

L9 ANSWER 3 OF 29 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 2000:393004 CAPLUS

DOCUMENT NUMBER: 133:31874

TITLE: Antireflective agents, films for protecting polarizing
panels and the panels

INVENTOR(S): Nakai, Hideyuki; Takiyama, Nobuyuki; Kobayashi, Toru;
Hasegawa, Mitsuyo

PATENT ASSIGNEE(S): Konica Co., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 17 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
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| JP 2000159840 | A2 | 20000613 | JP 1998-336193 | 19981126 |
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| PRIORITY APPLN. INFO.: | JP 1998-336193 | 19981126 |
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AB The agents with good adhesion to transparent substrate surface and resistance to scratching, are obtained from F-contg. monomers selected from fluoro(cyclo)alkyl (meth)acrylates, YOOCC_H:CR1COOZ [R1 = H, Me; Y, Z = (F-contg.) C2-12 alkyl, (F-contg.) C4-12 cycloalkyl (provided at least either Y or Z contains F)], CH₂C(COOY)CH₂COOZ, or/and F-contg. esters of 4,5-dicarboxycyclohexene. Thus, coating a soln. contg. dipentaerythritol hexaacrylate 60, dipentaerythritol hexaacrylate dimer 20, dipentaerythritol hexaacrylate oligomer (.gtoreq.3) 20, diethoxybenzophenone UV initiator 2, a ***silicone***
surfactant 1, Aerosil R 972 (treated fumed silica) 50, MEK 50, AcOEt 50 and i-PrOH 50 parts on the surface of a Konitac 80UVSH (cellulose triacetate) film, irradiating with UV light, coating on top with a soln. contg. 3,3,4,4,5,5,6,6-octafluorohexyl methacrylate 45, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9-heptafluorononylene glycol diacrylate 45, dipentaerythritol hexaacrylate 10, diethoxybenzophenone 0.2, F 177 (F-contg. ***surfactant***) 1, cyclohexanone 3500 and i-PrOH 7700 parts, drying and irradiating with UV light gave a coated film with reflective index 1.37, cross-cut adhesion 100/100 and good resistance to scratching.

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Display from CAPLUS

L# ANSWER 2 OF 104 CAPLUS COPYRIGHT 2003 ACS on STN

AN 2003:870563 CAPLUS

TI Image receptor containing ***betaine*** surfactant for thermal-transfer printing

IN Goto, Hidenori; Shimomura, Akihiro; Hatakeyama, Akira

PA Fuji Photo Film Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 31 pp.

CODEN: JKXXAF

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
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| PI | JP 2003312156 | A2 | 20031106 | JP 2002-126644 | 20020426 |
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| PRAI | JP 2002-126644 | 20020426 |
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AB The image receptor, for laser-sensitive thermal-transfer printing using thermal-transfer sheet with a light-to-heat converting layer and an image-forming layer, contains .gtoreq.1 fluorobetaine surfactant $RfL(CH_2)_nN^+R_1R_2CH_2CO_2^-$ ($Rf = C_4-18$ ***fluoroalkyl*** ; $L =$ bond, divalent linkage contg. .gtoreq.1 from O, N, S, and C; $n = 0-4$; $R_1-2 = C_1-4$ alkyl). The receptor shows good conveyance and gives clear transferred images useful for color proof.

IC ICM B41M005-40

ICS B41M005-26

DT ***Patent***

LA Japanese

EV979440244